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TSSA One-Page REPORT

Name, Department, and Email address:

Xinying Yin

Department of Science, Math and Technology Education (Department of teacher education and foundations)

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Name and Date of conference attended:

2014 Association of Science Teacher Education (ASTE) International Conference, January 15-18, 2014, San Antonio, TX

Teaching Skill(s) Studied:

1. The most significant piece of information I have learned from this conference is teaching engineering, as required by the Next Generation Science Standards (NGSS), in K-12 science classrooms. I went to a hands-on workshop, roundtable discussions, several presentations and posters, presented by scholars both from the U.S. and from other countries.
2. With regard to culturally relevant pedagogy, I learned using story-telling to connect NGSS and Common Core-English language arts. As well, I learned a professional development (PD) model for culturally relevant pedagogy. In this presentation, some foundations such as cultural competency and socio-political consciousness were introduced, an in-service science teachers' PD model, strategies of to enhance pre-service science teachers' culturally relevant pedagogy and students' learning were discussed.
3. As well, I went to a presentation about using hands-on performance assessment in K-12 classrooms to assess mastery of both the science practices and disciplinary core ideas in NGSS.

Impact on Current Teaching (How was this info applied)?

I have used the information about teaching engineering in K-12 science classrooms in my Multiple Subject Credential Methods Course (EELB532), and Master's course ESTM 628: Integrating mathematics and science in K-8 classrooms. Particularly for ESTM 628, engineering has been integrated with science and mathematics teaching, which made this course a pioneering course of teaching integrated STEM curriculum. The information culturally relevant pedagogy has informed significantly to my effort of revising the current science methods course EELB 532, which I will complete the revision during this coming summer. The performance assessment for NGSS is still in an introductory stage and this is what I will also focus on in my teaching and research in the near future.

Date Submitted: 6/5/2014

